

USPTO Intranet Home Index Resources Contact Us Search

Patent Intranet > Classification Home Page > Classification Search Page >

Classification Schedule [Site Feedback](#)

[Search Classification Data](#) | [Class Numbers & Titles](#) | [Class Numbers](#) | [USPC Index](#) | [International](#) | [HELP](#) | [Employee by Name](#) | [Employees by Org](#)

[<-Previous Page](#)

Class 473 GAMES USING TANGIBLE PROJECTILE

[Click here to view a PDF version of this file](#)

- 1 BILLIARDS OR POOL**
- 2 . Practice device or device to aid in aiming cue or cue ball during shots (e.g., to assist in bank shots, etc.)
- 3 . Adapted to be played on floor, ground, or court
- 4 . Table or gameboard
- 5 .. With mechanical ball projector
- 6 .. Convertible between billiard and pool (i.e., between pocketed and nonpocketed)
- 7 ... Using pocket blocking device positionable only in vicinity of pocket (e.g., pocket plug, rail piece, etc.)
- 8 ... Using interchangeable, shiftable, reversible, or removable cushion rails
- 9 ... Invertible playing surface
- 10 .. Convertible to another type of furniture or to different type of game playing surface
- 11 ... Rail vertically raised or lowered relative to bed
- 12 ... Vertically movable playing surface
- 13 ... Detachable or hinged rail
- 14 ... Convertible to different type of game playing surface
- 15 .. Readily foldable or collapsible
- 16 .. Rotatable playing surface
- 17 .. Having pocket or other target with ball actuated indicator
- 18 .. Playing surface having unconventional peripheral configuration defined by the carom rails
- 19 .. Attachment or accessory providing plural pockets or other targets located at only one end of playing surface
- 20 .. Playing surface having unconventional number, entrance opening, or arrangement of pockets or having additional or shiftable carom or bumper means thereon
- 21 .. Table attached ball rack
- 22 ... With conveying chutes interconnecting pockets with ball rack
- 23 With means to distinguish or identify each ball pocketed
- 24 Coin controlled
- 25 With means to separate or segregate store balls pocketed by each player or team
- 26 Ball rack also constitutes or includes spotting rack
- 27 .. With means to prevent unauthorized use of table or to limit playing time or number of games played
- 28 .. Pocket structure
- 29 .. Playing surface structure (i.e., bed structure)
- 30 ... Device for securing playing surface covering (e.g., for securing billiard table cloth, etc.)
- 31 .. Rail structure
- 32 ... Cushioned portion thereof
- 33 .. Frame or leg structure
- 34 .. Dust cover therefor
- 35 . Cue chalker
- 36 .. Chalk holder
- 37 ... With means for automatically applying chalk
- 38 ... Flexibly tethered
- 39 ... Secured to generally fixed support
- 40 . Ball spotting rack

- 41 .. With ball carrying or storage means
- 42 . Cue rest
- 43 .. Hand attached or engaged by hand in vicinity of cue supporting portion
- 44 . Cue
- 45 .. Mechanically operated
- 46 .. Disparate attachment therefor or convertible to or combined with disparate device
- 47 .. With user adjustable or changeable weight
- 48 .. Axially telescopic
- 49 .. Tip or tip fastener therefor
- 50 ... Clamp or press
- 51 ... Striking portion formed of material other than leather
- 52 . Ball
- 53 .. Having characteristic enabling ball to be mechanically separated from other balls
- 54 **BOWLING**
- 55 . Practice or assist device
- 56 .. For handicapped person
- 57 .. Selective pin setter
- 58 .. Ball path indicator
- 59 .. Bowler worn or carried
- 60 ... Including means for positive engagement with ball
- 61 ... Finger support or guide
- 62 ... Wrist support or guide
- 63 ... Arm or elbow support or guide
- 64 . Handling of pin or pin representation
- 65 .. Including electrical cycle sequence control
- 66 .. Including means for conserving energy
- 67 .. With indicator
- 68 ... Tethered or pivotal pin
- 69 ... Pinfall
- 70 Score
- 71 Including electromechanical calculating means
- 72 ... Foul
- 73 .. Pin setter
- 74 ... Rollable, translatable, or simulative target
- 75 ... Pivotal pin
- 76 Pivot substantially at base of pin
- 77 With spring detent
- 78 ... Tethered pin
- 79 Tethered at base of pin
- 80 Including reset lever or crank
- 81 Including means to remove dead wood
- 82 Pin biased away from bed
- 83 ... Manually loadable
- 84 Including means to upright pin
- 85 ... Magnetic force acts on pin
- 86 ... For alternative pin sets
- 87 ... Including means to lift live wood
- 88 With compensation for pin offset
- 89 ... Including distributor
- 90 Including means to convey pin to distributor
- 91 Including elevator
- 92 .. With compensation for pin offset
- 93 .. Pit cushion or actuator therefor
- 94 .. Pin guide or conveyor
- 95 ... Distributor
- 96 Pivotal chute or conveyor
- 97 ... Elevator
- 98 With ball separator

<u>99</u>	... And ball handling
<u>100</u>	... Sweep
<u>101</u>	.. Pin sensor
<u>102</u>	.. Pin spot
<u>103</u>	... Including means for positive pin alignment
<u>104</u>	.... Retractable peg
<u>105</u>	.... Socket-type
<u>106</u>	. Ball handling or diverting means
<u>107</u>	.. Mechanical projector
<u>108</u>	.. Tethered ball
<u>109</u>	.. Means to change or curve ball path
<u>110</u>	.. Ball return
<u>111</u>	... Ball lift or elevator
<u>112</u>	... Mechanical means for ball retarding or arresting
<u>113</u>	.. Gutter structure
<u>114</u>	.. Backstop, division board, or adjunct therefor
<u>115</u>	. Alley or board structure
<u>116</u>	.. Portable game board, table, or alley
<u>117</u>	.. With nonwooden alley surface or lining
<u>118</u>	. Pin
<u>119</u>	.. Composite structure (e.g., distinct layers, components, joint, etc.)
<u>120</u>	... With reinforcing filament, fiber, or fabric
<u>121</u>	... With metal shell or skin
<u>122</u>	... With wooden component
<u>123</u>	.... Laminated or attached wooden components
<u>124</u>	.... With end or bottom reinforcing preform
<u>125</u>	. Ball
<u>126</u>	.. With weight block
<u>127</u>	.. With specific grip means
<u>128</u>	... Thumb or finger hole grip
<u>129</u>	.... Size or depth adjusting means
<u>130</u>	.... Removable insert or bushing
<u>131</u>	GOLF
<u>132</u>	. Ball feeding means and tee
<u>133</u>	.. Adjustable tee height
<u>134</u>	.. Condition responsive feeding means (e.g. automatic)
<u>135</u>	... Pneumatic
<u>136</u>	... Electrical
<u>137</u>	.. Pivotal arm ball feed
<u>138</u>	. Projectile tethered to swingable implement
<u>139</u>	. Anchored (e.g., tethered, etc.) projectile
<u>140</u>	.. With electrical sensor or electrical indicator
<u>141</u>	... Pictorial flight path image display
<u>142</u>	.. Spool for tether
<u>143</u>	.. With force or direction indicator and tether
<u>144</u>	... Linear spring indicator
<u>145</u>	.. Force or direction indicator associated with projectile moving around a horizontal axis
<u>146</u>	.. Force or direction indicator associated with projectile moving around a vertical axis
<u>147</u>	.. Spherical projectile attached to tether
<u>148</u>	.. Plural projectiles
<u>149</u>	.. Projectile moves around vertical axis
<u>150</u>	. Projectile addressing surface and target, or distance marker (e.g., course, putting green with cup, driving range, miniature golf course, etc.)
<u>151</u>	.. Electrical sensor or electrical indicator responsive to swingable implement or projectile
<u>152</u>	... Sensor is projectile responsive (e.g., free-flight detection means, etc.)
<u>153</u>	.... Projectile in receiver indicator

<u>154</u>	.... Target impact responsive
<u>155</u>	.... Including sensor responsive to projectile on addressing surface or in flight (e.g., tee-target time detection, etc.)
<u>156</u>	..... Pictorial flight path image display
<u>157</u>	.. Non-earth fairway
<u>158</u>	... And obstacle (e.g., miniature golf course windmill, etc.)
<u>159</u>	... Target is surface positioned aperture
<u>160</u>	.... Selectively contourable (e.g., slope simulating surface, etc.)
<u>161</u>	..... Motor actuation
<u>162</u>	.... Collapsible (e.g., for storage, etc.)
<u>163</u>	.... Projectile return
<u>164</u>	... Projectile rebounds off target
<u>165</u>	.. Particular projectile (e.g., reduced flight ball, etc.)
<u>166</u>	.. Projectile return
<u>167</u>	.. Fairways extending radially from centrally located addressing surface or target
<u>168</u>	.. Plural addressing surfaces (e.g., driving range, etc.)
<u>169</u>	... Having sequential play (e.g., regulation earth course, etc.)
<u>170</u>	.... Upstanding target (e.g., wicket, bucket, etc.)
<u>171</u>	... Putting green
<u>172</u>	.. Upstanding target
<u>173</u>	. Target or obstacle (e.g., putting hole, hole marker, sand trap, etc.)
<u>174</u>	.. Target on putting surface
<u>175</u>	... Receiver is cup in earth (e.g., regulation hole in green, etc.)
<u>176</u>	.... Having cup marker (e.g., flag pin, etc.) or with sensor responsive to projectile
<u>177</u>	..... And projectile removal
<u>178</u>	..... Electrical actuation (e.g., solenoid, etc.)
<u>179</u>	.... Cup diameter restriction means (e.g., filler plug, etc.)
<u>180</u>	... Receiver or projectile responsive indicator
<u>181</u>	.... Selectively adjustable approach surface
<u>182</u>	.... Projectile return
<u>183</u>	..... Electrical actuation
<u>184</u>	..... Gravity
<u>185</u>	.... Plural receivers
<u>186</u>	.... Displaceable by projectile impact
<u>187</u>	..... Resilient or pivotal portion arranged in a circle to retain projectile
<u>188</u>	..... Top of projectile engaged
<u>189</u>	..... Pivotal element
<u>190</u>	.. Projectile responsive sensor (e.g., target impact indicator, etc.)
<u>191</u>	... And projectile return
<u>192</u>	... Electrical sensor
<u>193</u>	... Projectile adheres to target
<u>194</u>	.. Having projectile return
<u>195</u>	.. Projectile receiving aperture (e.g., goal opening, etc.)
<u>196</u>	... Aperture forming surface forms plane parallel to support surface
<u>197</u>	.. Net
<u>198</u>	. Moving projectile responsive sensor or indicator
<u>199</u>	.. Electrical
<u>200</u>	.. Indicator integral with projectile
<u>201</u>	. Hand on grip positioning aid or grip indicator
<u>202</u>	.. With electrical sensor or electrical indicator
<u>203</u>	.. Integral handle having finger conforming configurations
<u>204</u>	.. Angularly related integral grip portions
<u>205</u>	.. Worn on hand (e.g., glove, etc.)
<u>206</u>	.. Removably attachable to swingable implement
<u>207</u>	. Practice device attachable to body
<u>208</u>	.. Attachable to head, neck, or mouth
<u>209</u>	... Electrical
<u>210</u>	... Sighting element (e.g., eyeglasses, etc.)

- 211 ... With displaceable indicator responsive to head movement
- 212 .. Attachable to arm, hand, or wrist
- 213 ... Wrist
- 214 ... Spans elbow
- 215 .. Attachable to hips, torso, or waist
- 216 ... Waist encircling belt anchored to static structure
- 217 .. Attachable to foot
- 218 . Foot positioning aid and indicator associated with swingable implement
- 219 . Practice swingable implement or indicator associated with swingable implement
- 220 .. With lighting (e.g., laser, etc.) means attachable to or integral with implement
- 221 .. With electrical sensor or electrical indicator
- 222 ... Sensor positioned apart from implement to interact with a separate cooperating sensor means attachable to or integral with implement
- 223 ... Integral with or attachable to swingable implement
- 224 Audible indicator
- 225 ... Sensor integral with projectile addressing surface
- 226 .. Device attachable to or integral with swingable implement
- 227 ... Nonhandle element engagable with body
- 228 ... Air resistance device (e.g., airfoil, etc.)
- 229 ... Anchored (e.g., tethered, etc.) swingable implement
- 230 ... Wheel
- 231 ... Adjustable swingable implement, or swing or position indicator
- 232 Alterable shaft provides swing force indication
- 233 Swing speed indicator
- 234 Audible
- 235 Projectile retained by head of swingable implement during swing
- 236 Projection on face of swingable implement head provides reduced striking area
- 237 Indication is a mark made by implement swing
- 238 Adjustable implement or static position indicator (e.g., with respect to the golfer, projectile, target, etc.)
- 239 Adjustable shaft length
- 240 Reflective element
- 241 Bubble leveler
- 242 Integral with or attachable to swingable implement head
- 243 Self-standing implement
- 244 Selectively adjustable positioning means
- 245 Adjustable loft angle
- 246 And adjustable lie angle
- 247 Longitudinal bore in head receives elongated member about which head pivots
- 248 Adjustable lie
- 249 Surface on head simulates ball
- 250 Having transparent or translucent element
- 251 Used for putting
- 252 Horizontally spaced linear indicia perpendicular to projectile striking face
- 253 And vertically spaced apart indicia
- 254 Vertically spaced apart indicia
- 255 T-shaped head
- 256 ... Particularly weighted practice implement
- 257 .. Swingable implement swing path indicator
- 258 ... Head or shaft continuously engaged during swing
- 259 Closed loop
- 260 Swingable implement head engaged
- 261 ... Barrier which monitors swingable implement head movement
- 262 Barrier is projectile addressing surface
- 263 Self-righting
- 264 Plural barriers, vertically spaced apart
- 265 Plural barriers, horizontally spaced apart
- 266 . Body movement or position indicator (e.g., stance aids, etc.)

<u>267</u>	.. Reflective device
<u>268</u>	.. Sighting device directing golfer`s visual focus toward a point to restrain head movement
<u>269</u>	.. Responsive to weight shift
<u>270</u>	.. Foot positioning aid
<u>271</u>	... Having separate body engagable member
<u>272</u>	... Selectively adjustable with pivotal members
<u>273</u>	... Selectively adjustable with linearly slidable member (e.g., telescopically extendible)
<u>274</u>	.. Engaged with head or neck
<u>275</u>	... And separate body engagable member
<u>276</u>	.. Engaged with arm or shoulder
<u>277</u>	.. Engaged with hips, torso, or waist
<u>278</u>	. Practice projectile addressing surface (e.g., driving mat, etc.)
<u>279</u>	.. Selectively adjustable (e.g., tiltable etc.)
<u>280</u>	. Practice projectile
<u>281</u>	.. Having air resistance device
<u>282</u>	. Club or club support
<u>283</u>	.. And scorekeeping device
<u>284</u>	.. And tee
<u>285</u>	.. And ball position marker
<u>286</u>	.. And turf repair tool or ball retriever
<u>287</u>	.. Club set
<u>288</u>	... Interchangeable handle, striking face, or shaft
<u>289</u>	... Particular correlated shaft flexural characteristic
<u>290</u>	... Particular correlated head characteristic
<u>291</u>	.... Mass distribution
<u>292</u>	.. Head, shaft, and handle having particular combined center of gravity
<u>293</u>	.. Player faces target (e.g., croquet style putter, etc.)
<u>294</u>	.. Hands spaced apart on handle
<u>295</u>	.. Rotatable handle
<u>296</u>	.. Longitudinally adjustable handle or shaft
<u>297</u>	.. Particularly weighted handle
<u>298</u>	.. Grip or handle having particular nonwinding attachment to shaft (e.g., quick detachable, etc.)
<u>299</u>	... Reattachable
<u>300</u>	.. Grip
<u>301</u>	... Spiral winding
<u>302</u>	.... Having recess or projection
<u>303</u>	... Having longitudinal recess or projection
<u>304</u>	.. One piece head and shaft
<u>305</u>	.. Head and shaft connection
<u>306</u>	... Threaded shaft
<u>307</u>	... Detachable and reattachable
<u>308</u>	... Sleeve or winding engaged over outside of joint, hosel, and shaft
<u>309</u>	... Joint formed with sleeve engaging shaft and hosel
<u>310</u>	.... Resilient sleeve engaging hosel and outer shaft wall
<u>311</u>	... Shaft contacts sole
<u>312</u>	... Having core (e.g., weight, etc.) positioned in head engaging shaft end
<u>313</u>	... Putter
<u>314</u>	... Particular relationship between shaft longitudinal axis and head orientation
<u>315</u>	... Noncircular shaft end wall engages hosel
<u>316</u>	.. Shaft
<u>317</u>	... Reduced air resistance
<u>318</u>	... Including nonmetallic material or vibratory wave modifying feature
<u>319</u>	.... Filament (e.g., fiber, etc.) or sheet wrapped about shaft longitudinal axis
<u>320</u>	..... Including metal
<u>321</u>	.... And metal

<u>322</u>	.... Sections connected along longitudinally extending seam
<u>323</u>	... Shaft tapered in steps
<u>324</u>	.. Head
<u>325</u>	... Plural striking faces
<u>326</u>	... Liquid interior
<u>327</u>	... Reduced air resistance
<u>328</u>	... Reduced ground resistance
<u>329</u>	... Striking face surface deforms upon impact (e.g., resilient, etc.)
<u>330</u>	... Curved, grooved, or roughened striking face
<u>331</u>	.... Plural grooves
<u>332</u>	... Vibratory wave (e.g, shock wave, etc.) modifying feature
<u>333</u>	... With element displaceable with respect to another head element during swing
<u>334</u>	... Selectively adjustable weighting element
<u>335</u>	.... Embedded in head
<u>336</u>	..... Elongated horizontal bore
<u>337</u>	..... Perpendicular to projectile striking face
<u>338</u>	..... In vertical bore access by sole
<u>339</u>	..... In vertical bore access through top
<u>340</u>	... Putter
<u>341</u>	.... Toe and heel weighting
<u>342</u>	... Striking face insert
<u>343</u>	... Wood composition
<u>344</u>	.... Having particular sole plate
<u>345</u>	... Hollow body
<u>346</u>	.... With internal support rib or injected material
<u>347</u>	... Embedded fiber composition
<u>348</u>	.... Including metal
<u>349</u>	... Particular material composition or mass distribution
<u>350</u>	.... Recess or cavity behind striking face
<u>351</u>	. Ball
<u>352</u>	.. Buoyant
<u>353</u>	.. Having locator means
<u>354</u>	.. Liquid interior
<u>355</u>	.. Hollow pockets between spherical core and cover
<u>356</u>	.. Wound interior
<u>357</u>	... Surrounding non-wound spherical core
<u>358</u>	.... Hollow core
<u>359</u>	.... Metal core or winding
<u>360</u>	..... Wound wire
<u>361</u>	.... Plural diverse layers between core and cover
<u>362</u>	..... Diverse tension in wound layers
<u>363</u>	..... Nonwound layer
<u>364</u>	..... Plural diverse nonwound layers
<u>365</u>	.... Having particular cover
<u>366</u>	.... Wound wide band
<u>367</u>	.. Interior includes injected or compressed material
<u>368</u>	... Injected material
<u>369</u>	.... Injected gas
<u>370</u>	... Diverse layer between spherical core and cover
<u>371</u>	.. Particular unitary or layered construction
<u>372</u>	... Containing metal
<u>373</u>	.... Diverse layer between spherical core and cover
<u>374</u>	... Diverse layer between spherical core and cover
<u>375</u>	.... Hollow core
<u>376</u>	.... Plural diverse layers
<u>377</u>	... Diverse cover and interior
<u>378</u>	.. Particular cover (e.g., size, material, dimple pattern, etc.)
<u>379</u>	... Icosahedral dimple pattern

<u>380</u>	... Cuboctahedral dimple pattern
<u>381</u>	... Dodecahedral dimple pattern
<u>382</u>	... Octahedral dimple pattern
<u>383</u>	... Particular dimple detail
<u>384</u>	.... Depth or width
<u>385</u>	... Containing metal
<u>386</u>	. Tee setting device
<u>387</u>	. Tee
<u>388</u>	.. Folded flat stock material
<u>389</u>	... Separable from pack containing plural tees
<u>390</u>	.. Plural
<u>391</u>	... Separable or separately movable
<u>392</u>	.. Projectile supporting surface horizontally offset from vertical insertable shank
<u>393</u>	... Tether
<u>394</u>	.. Restrained by auxiliary weight
<u>395</u>	.. Wire
<u>396</u>	.. Relatively movable sections
<u>397</u>	... Pivotal about distinct horizontal axis
<u>398</u>	... Elevation guide
<u>399</u>	.. Particular biodegradable or frangible material
<u>400</u>	.. Elevation guide for insertable shank
<u>401</u>	.. Plural diverse materials
<u>402</u>	.. Shank extends below level of projectile addressing surface
<u>403</u>	... At acute angle with surface
<u>404</u>	. Green slope indicator
<u>405</u>	. Accessory device located on projectile addressing surface (e.g., tee block, direction indicator, etc.)
<u>406</u>	. Ball position marker
<u>407</u>	. Club selection, ball direction, or distance indicating aid
<u>408</u>	. Player manipulated turf repair tool
<u>409</u>	. Method
<u>410</u>	CROQUET; GAME ELEMENT OR ACCESSORY THEREFOR
<u>411</u>	. Arch type of goal or target, per se (i.e., croquet wicket)
<u>412</u>	. Player-carried, nonmechanical projector, per se (e.g., a mallet, etc.)
<u>413</u>	. Ball, per se
<u>414</u>	HOPSCOTCH
<u>415</u>	PLAYING FIELD OR COURT GAME; GAME ELEMENT OR ACCESSORY THEREFOR OTHER THAN PROJECTOR OR PROJECTILE, PER SE
<u>416</u>	. Having game element combined with or convertible to game element or practice or training device for different type of projectile game
<u>417</u>	. Means removably supporting projectile in position to be struck and thereby projected by player (e.g., batting tee, etc.)
<u>418</u>	.. Projectile suspended or is supported by column of fluid
<u>419</u>	.. Having means engaging top of projectile (e.g., kicking trainer or tee, etc.)
<u>420</u>	.. For projectile intended to be projected by kicking (e.g., kicking trainer or tee, etc.)
<u>421</u>	. Batting backstop or cage
<u>422</u>	. Practice or training device
<u>423</u>	.. Tethered projectile
<u>424</u>	... Tether attached to means adapted to be held by, carried by, or attached to person
<u>425</u>	.... Person held, carried, or attached means is nonmechanical projector
<u>426</u>	... Projectile tethered between opposed tether sections
<u>427</u>	... Projectile continuously driven in closed orbit prior to being struck
<u>428</u>	... Projectile slidable along a line
<u>429</u>	... Tether pivotally attached for orbital revolution
<u>430</u>	... Projectile suspended by tether
<u>431</u>	.. Having projectile return means
<u>432</u>	... Return chute
<u>433</u>	.... With or for basketball-type goal

- 434 ... Deflector
- 435 Planar
- 436 ... Using moving arm or rotating wheel
- 437 .. Weight externally mounted by user to manually held and swung projector for warmup or exercise
- 438 .. For football or rugby
- 439 ... Projectile target or stop
- 440 ... Running grid or resistance course
- 441 ... Blocking, tackling, or charging device
- 442 Suspended or suspendible dummy
- 443 Suspension movable in horizontal plane
- 444 Self-erecting or person-supported dummy
- 445 Dummy mounted on support enabling traverse over ground or floor during training (e.g., charging sled, etc.)
- 446 .. For game using apertured or pocketed goal or target (e.g., for hockey, soccer, polo, lacrosse, etc.)
- 447 ... For game using elevated, horizontally disposed goal or target (e.g., for basketball, etc.)
- 448 Hoop-opening reducer or means for improving arch of ball shot toward goal or target
- 449 Rebound or tipping trainer
- 450 Player worn or carried
- 451 .. For game in which play involves base running (e.g., for baseball, cricket, etc.)
- 452 ... Foot positioner (e.g., stance, stride device, etc.)
- 453 ... Bat swing analyzer or guide
- 454 ... Pitcher`s target
- 455 With electrically operated or actuated indicator
- 456 Having subdivided strike zone
- 457 ... Practice bat
- 458 ... Player worn or carried
- 459 .. For game using field or court having dividing means thereon for separating opponents (e.g., for tennis, volleyball, table tennis, etc.)
- 460 ... Projectile collector for field or court (e.g., trough, ball sweeper, etc.)
- 461 ... Racket or paddle swing analyzer or guide
- 462 ... Projectile target
- 463 ... Practice racket or paddle
- 464 ... Player worn or carried
- 465 . Having at least two different types of game elements used in same game
- 466 .. For game in which court or field is body of water (e.g., water polo, water volleyball, etc.)
- 467 .. Having boundary detector (e.g., ball-out-of-bounds detector for tennis court, etc.)
- 468 .. For game in which play involves base running (e.g., baseball, cricket, etc)
- 469 .. Having field or court dividing barrier with apertured goal or target therein or thereon
- 470 .. For game using goal or target for projectile (e.g., football, rugby, etc.)
- 471 ... For game in which goal or target is peripherally located aperture or pocket (e.g., hockey, soccer, lacrosse, polo, etc.)
- 472 For game in which peripheral goal or target is elevated and horizontally disposed (e.g., basketball, etc.)
- 473 .. For game using field or court having dividing means thereon for separating opponents (e.g., a net used for volleyball, etc.)
- 474 ... For game also using projectors carried by players (e.g., tennis, badminton, etc.)
- 475 Table tennis
- 476 . Goal or target structure for projectile; element thereof
- 477 .. For football or rugby (e.g., goal post, etc.)
- 478 .. Apertured or pocketed goal or target (e.g., for hockey, soccer, polo, lacrosse, etc.)
- 479 ... Goal or target is elevated and horizontally disposed (e.g., for basketball, etc.)
- 480 With goal indicator

- 481 Backboard or support structure therefor
- 482 Suspended
- 483 With height adjustment feature
- 484 Having parallelogram linkage
- 485 Hoop or the net, pocket, or support structure therefor
- 486 Breakaway hoop
- 487 Having means for mounting over edge of support
- 488 Quick mount hoop
- 489 Removable net-mounting subassembly
- 490 . Means for dividing field or court into compartments; element thereof or accessory therefor (e.g., a net, marking strip, marked line, etc.)
- 491 .. Net attachable to game table
- 492 .. Net post
- 493 ... With net-tightening means
- 494 .. Net, with net, or for net
- 495 ... Net center stay
- 496 . Table-tennis table
- 497 . Pitching rubber or mound
- 498 . Cricket wicket
- 499 . Base for game in which play involves base running (e.g., for baseball, etc.)
- 500 .. With indicator
- 501 .. Breakaway
- 502 . Flag belt (e.g., for use in football game without tackling, etc.)
- 503 . Projectile catcher other than combined projector-catcher device
- 504 . Cover for playing field or court (e.g., for baseball field, etc.)
- 505 **PLAYER-HELD DEVICE FOR BOTH PROJECTING AND CATCHING AERIAL PROJECTILE; PART THEREOF OR ACCESSORY THEREFOR (I.E., COMBINED PROJECTOR-CATCHER DEVICE)****
- 506 . With tethered projectile
- 507 .. Having pocketed catcher
- 508 ... Having elastic tether
- 509 . Having projectile conducting means between separate entrance and exit (e.g., continuous orbit, etc.)
- 510 . Both projector and catcher are pocketed
- 511 .. With mechanical projection
- 512 .. Pocket-to-pocket type
- 513 .. Having pocket with laterally facing opening (e.g., lacrosse stick, jai alai cesta, etc.)
- 514 . Having impaling, hooking, or ensnaring type catcher
- 515 . Having pocketed catcher connected to but spaced apart from projector
- 516 **PLAYER HELD AND POWERED, NONMECHANICAL PROJECTOR, PER SE, FOR PROJECTING AERIAL PROJECTILE BY STRIKING; PART THEREOF OR ACCESSORY THEREFOR****
- 517 . Having projectile retrieving means
- 518 . Body attachable
- 519 . With user shiftable, adjustable, or interchangeable weight for use during play or with freely shiftable mass for increasing impact force
- 520 . With sound-deadening, vibration-damping, or shock-absorbing feature other than projectile- or hand-contact surface or with rebound reducing feature
- 521 .. For racket or paddle
- 522 ... Contacts string
- 523 ... In, under, or contacting grip
- 524 . Racket or paddle; accessory therefor (e.g., a tennis racket, tennis racket press, etc.)
- 525 .. Having striking faces attached to the ends of intermediate handle
- 526 .. Having handle at an angle to, offset from, or nonradially oriented relative to plane of striking member
- 527 .. Paddle
- 528 ... Projectile striking surface is flexible sheet secured to peripheral frame
- 529 ... Having resilient blade facing

- 530 ... Blade having means to enhance friction upon impacted projectile (e.g., to enhance English upon projectile, etc.)
- 531 .. Folding or detachable shaft
- 532 .. Having replaceable string frame
- 533 .. Double strung (i.e., having striking faces formed from two spaced-apart, planar sets of strings)
- 534 .. With adjustable string-tensioning means
- 535 .. Fiber reinforced plastic frame
- 536 ... Plural fiber compositions
- 537 .. Having dimensional characteristic or other parameter specified by a number, numeric variable, or mathematical formula (e.g., location of center of gravity, elastic modulus of a string, weight of racket, etc.)
- 538 ... Of handle or grip
- 539 .. Elongated string-hole liner (e.g., grommet, bushing, etc.)
- 540 .. Having string mounting feature other than mere through-holes lying in string plane
- 541 ... Extending radially inward from inner frame edge
- 542 ... Having nonplanar string-hole pattern or arrangement in frame
- 543 .. Prefabricated string assembly, means to prevent relative movement or wear at crossover points of strings, or having one or more strings with specified characteristic or arrangement
- 544 .. Nonmetallic frame having metallic reinforcement or frame composed of metal-plastic composite
- 545 .. Metallic frame
- 546 .. Throat wedge, bridge, or reinforcement
- 547 .. Having laminated frame
- 548 .. String guard, frame bumper or guard, or specified shaft to head connection
- 549 .. Handle or grip structure
- 550 ... Dispensing, cooled, or externally ventilated
- 551 ... Having hand or finger conforming contour, through-hole for finger, portion overlying back of hand, projecting hand stop or positioner spaced from butt, wrist strap, or nonstandard transverse cross-section
- 552 ... Grip or handle longitudinally or rotationally adjustable relative to head or shaft or changeable in length
- 553 .. Accessory for use with racket or paddle (e.g., used with or for tennis racket, etc.)
- 554 ... Press
- 555 ... Racket frame holder or support for use while stringing
- 556 With stringing or string-stretching device
- 557 ... Stringing or string-stretching device
- 558 . Mallet
- 559 . Club
- 560 .. Having elongated blade (e.g., hockey stick, etc.)
- 561 ... Fiber reinforced
- 562 ... Stick to blade joint construction
- 563 ... Blade construction or accessory
- 564 . Bat (e.g., baseball bat, etc.)
- 565 .. Having elongated blade (e.g., cricket bat, etc.)
- 566 .. Of metallic-shell structure
- 567 .. Of plastic composition
- 568 .. Grip
- 569 **PROJECTILE, PER SE; PART THEREOF OR ACCESSORY THEREFOR**
- 570 . With light-emitting, electrical, magnetic, or rotatable inertial means or having boundary-detector activating means
- 571 . With sound-producing means
- 572 . Having suction cup
- 573 . Having bristled, hooked, or looped surface for adherence to complementarily surfaced means (e.g., Velcro® material, etc.)
- 574 . Having means for nonpenetrating adherence to complementarily surfaced means (e.g., tacky surface, etc.)

- 575 . Having attached or means for attaching thereto tether, elongated flaccid streamer, or the like
- 576 .. Attached tether, streamer, or the like has means adapted to be held by, carried by, or attached to person
- 577 . Scattershot, material dispensing upon impact, openable to expose interior chamber, or having parts adapted to move away from, or be separated from, one another upon impact
- 578 . Arrow, dart, or shuttlecock; part thereof
- 579 .. Shuttlecock (e.g., badminton shuttlecock, etc.)
- 580 ... Having independent feathers or vanes
- 581 .. Having fluid-conducting means
- 582 .. Head structure
- 583 ... Broadhead
- 584 Having interchangeable blade
- 585 ... And vane structure (i.e., flight guiding or stabilizing means)
- 586 .. Vane structure (i.e., flight guiding or stabilizing means)
- 587 . Curling stone
- 588 . Disk- or ring-shaped (e.g., ice hockey puck, etc.)
- 589 .. Ring-shaped (e.g., deck-tennis quoit, etc.)
- 590 . Boomerang
- 591 . Horseshoe
- 592 . Tipcat
- 593 . Having self-contained means for inflating, pressurizing, reinflating, or repressurizing projectile with fluid or comprising reinflating or repressurizing method
- 594 . Having loose internal element, containing or adapted to contain liquid, or comprising spherically configured ball having variable or eccentric center of gravity
- 595 . Having means other than ellipsoidal spheroid shape (e.g., football shaped, etc.) to produce erratic or unpredictable rebounding or rolling thereof
- 596 . Having handle or surface configuration for enhancing user's handgrip thereon
- 597 .. Grip-enhancing means comprises closure or seam of casing or cover or comprises simulation of such closure or seam (e.g., lacing of football casing, etc.)
- 598 . Comprising casing or cover having stitched seam or laced closure; blank for such casing or cover (e.g., casing of baseball, etc.)
- 599 .. For distensible bladder (e.g., casing of football, etc.)
- 600 . Having solid core within outer cover; core or cover therefor (e.g., baseball, etc)
- 601 .. And having intermediate layer between core and cover or having core or cover composed of plural layers
- 602 ... Having plural intermediate layers, at least one being of material diverse from material of core, cover, or another intermediate layer; or having core or cover composed of three or more layers, at least two being of diverse materials
- 603 . Having fluid-retaining bladder removable from within enclosing cover or casing (e.g., football, etc.)
- 604 . Having hollow core or bladder enclosed within cover (e.g., basketball, soccer-ball, tennis ball, etc.)
- 605 .. And having intermediate layer composed of wrapping of strands or strips between cover and core or bladder
- 606 .. Cover is composed of feltlike, napped, or cloth material (e.g., tennis ball, etc.)
- 607 . Comprising cover for core; blank or closure therefor
- 608 .. Closure therefor
- 609 . Having hollow, fluid-impervious shell, core, or bladder
- 610 .. With sealable opening, valve, or inflation tube for insertion of fluid (e.g., beach ball, etc.)
- 611 . Comprising opening, valve, or inflation tube for insertion of fluid
- 612 . Having visible skeletal structure
- 613 . Having fluid-dynamic means other than stitched seam or textured surface to alter, stabilize, or retard passage of projectile through the fluid (e.g., spiral fluting to impart spin, etc.)

- 614 . Having projections extending outwardly from external surface or consisting of a mass of radially oriented filaments
- 615 . Player held or worn means for enhancing movement of projected projectile (e.g., a handheld, ball-curving assist means, etc.)

FOREIGN ART COLLECTIONS

FOR000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR100 BASKETBALL (273/1.5R)

- FOR101 . Basketball training devices (273/1.5A)

FOR102 BASEBALL (273/25)

- FOR103 . Practice devices (273/26R)
- FOR104 .. Target or backstop (273/26A)
- FOR105 .. Bats (273/26B)
- FOR106 .. Player worn (273/26C)
- FOR107 .. Ball pitching devices (273/26D)
- FOR108 .. Tethered (273/26E)
- FOR109 .. Tethered balls slidable along a line (273/26EA)
- FOR110 . Field covers (273/27)
- FOR111 . Ball curvers (273/28)
- FOR112 TENNIS (273/29R)**
- FOR113 . Table (273/30)
- FOR114 . Court marking strips (273/31)
- FOR115 . Practice (273/29A)
- FOR116 . Nets (273/29B)
- FOR117 .. Net center stay (273/29BA)
- FOR118 .. Net post (273/29BB)
- FOR119 ... Net tightening (273/29BC)
- FOR120 Reel (273/29BD)

<u>FOR121</u>	.... Lever (273/29BE)
<u>FOR122</u>	.... Screw (273/29BF)
<u>FOR123</u>	.... Rotating post (273/29BG)
<u>FOR124</u>	FOOTBALL (273/55R)
<u>FOR125</u>	. Tackling dummies (273/55A)
<u>FOR126</u>	. Kicking tees and kicking trainers (273/55B)
<u>FOR127</u>	. Flag belts (273/55C)
<u>FOR128</u>	. Goal post structure (273/55D)
<u>FOR129</u>	CROQUET (273/56)
<u>FOR130</u>	. Tables and boards (273/57)
<u>FOR131</u>	HOPSCOTCH (273/57.1)
<u>FOR132</u>	HOCKEY
<u>FOR133</u>	FENCING (273/57.3)
<u>FOR134</u>	BALLS (273/58R)
<u>FOR135</u>	. Baseball (273/60R)
<u>FOR136</u>	.. Covers (273/60A)
<u>FOR137</u>	.. No windings (273/60B)
<u>FOR138</u>	. Tennis (273/61R)
<u>FOR139</u>	.. Ping-pong balls (273/61A)
<u>FOR140</u>	.. Fabrics, per se (273/61B)
<u>FOR141</u>	.. Rubber formulations (273/61C)
<u>FOR142</u>	.. Methods of pressurizing (273/61D)
<u>FOR143</u>	. Football and basketball (273/65R)
<u>FOR144</u>	.. Closure (273/65A)
<u>FOR145</u>	.. Bladders (273/65B)
<u>FOR146</u>	.. Valves: composite (273/65C)
<u>FOR147</u>	.. Valves: rubber (273/65D)
<u>FOR148</u>	.. Casings (273/64E)
<u>FOR149</u>	... Nonball art (273/65EA)

<u>FOR150</u>	... Windings (273/65EB)
<u>FOR151</u>	... Weighted (273/65EC)
<u>FOR152</u>	... Ball making methods (273/65ED)
<u>FOR153</u>	... One-piece construction (273/65EE)
<u>FOR154</u>	... Spiraling and electrical (273/65EF)
<u>FOR155</u>	... Gripping structure (273/65EG)
<u>FOR156</u>	.. Closure means (273/65F)
<u>FOR157</u>	. Solid and covered (273/58A)
<u>FOR158</u>	. Hollow: single layer (273/58B)
<u>FOR159</u>	. Plural layer (273/58BA)
<u>FOR160</u>	. Tethered (273/58C)
<u>FOR161</u>	. Skeleton (273/58D)
<u>FOR162</u>	. Sounding (273/58E)
<u>FOR163</u>	. Loose internal elements (273/58F)
<u>FOR164</u>	. Including electrical components (273/58G)
<u>FOR165</u>	. Liquid containing (273/58H)
<u>FOR166</u>	. rubber formulation (273/58J)
<u>FOR167</u>	. Surface projections (273/58K)
<u>FOR168</u>	BAT, Mallet, Racket, or Billy (273/67R)
<u>FOR169</u>	. Baseball (273/72R)
<u>FOR170</u>	.. Metal shell (273/72A)
<u>FOR171</u>	. Tennis (273/73R)
<u>FOR172</u>	.. Presses and cases (273/74)
<u>FOR173</u>	.. Handle grips (273/75)
<u>FOR174</u>	.. Table (273/76)
<u>FOR175</u>	.. Stringing devices (273/73A)
<u>FOR176</u>	.. Stretching devices (273/73B)
<u>FOR177</u>	.. Bow structure (273/73C)
<u>FOR178</u>	.. String fastener or guides (273/73D)

<u>FOR179</u>	.. Adjustable tension (273/73E)
<u>FOR180</u>	.. Laminated nonmetallic (273/73F)
<u>FOR181</u>	.. Throat structure (273/73G)
<u>FOR182</u>	.. Metal (273/73H)
<u>FOR183</u>	.. Handle structure, per se (273/73J)
<u>FOR184</u>	.. Metal reinforced (273/73K)
<u>FOR185</u>	.. Replaceable string frame (273/73L)
<u>FOR186</u>	. Croquet (273/83)
<u>FOR187</u>	. Police clubs (273/84R)
<u>FOR188</u>	.. Electric shock (273/84ES)
<u>FOR189</u>	. Hockey sticks (273/67A)
<u>FOR190</u>	. Hand or foot attached (273/67B)
<u>FOR191</u>	. Polo mallet (273/67C)
<u>FOR192</u>	. Cricket bat (273/67D)
<u>FOR193</u>	.. Handle structure (273/67DA)
<u>FOR194</u>	.. Grips, guards, and weights (273/67DB)
<u>FOR195</u>	.. Blade facings (273/67DC)
<u>FOR196</u>	. Combined projector and catcher (273/318)
<u>FOR197</u>	.. Tethered projectile (273/319)
<u>FOR198</u>	... Pocketed catcher (273/320)
<u>FOR199</u>	.... Elastic tether (273/321)
<u>FOR200</u>	.. Separate entrance and exit (e.g., continuous orbit, etc.) (273/322)
<u>FOR201</u>	.. Pocketed projector and catcher (273/323)
<u>FOR202</u>	... Mechanical projection (273/324)
<u>FOR203</u>	... Pocket-to-pocket (273/325)
<u>FOR204</u>	... Transversely extending pocket (e.g., lacrosse stick) (273/326)
<u>FOR205</u>	.. Impaling, hooking, or ensnaring type catcher (273/327)
<u>FOR206</u>	.. Pocketed catcher-separate projector (273/328)
<u>FOR207</u>	. Tipcoat game, projectile therefor, or accessory (273/341)

<u>FOR208</u>	. Projectile or target having suction cup (273/344)
<u>FOR209</u>	. Projectile or target having magnetized material for adherence therebetween (273/345)
<u>FOR210</u>	. Projectile or target having complementary bristled, micro-hooked, or looped material for adherence therebetween (e.g., Velcro® material, etc.) (273/346)
<u>FOR211</u>	. Projectile or target having complementary means for nonpenetrating adherence therebetween (e.g., tacky surface, etc.) (273/347)
<u>FOR212</u>	. Playing field or court game; or accessory therefor (e.g., volleyball, soccer, etc.) (473/411)
<u>FOR213</u>	. Tethered projectile (273/413)
<u>FOR214</u>	.. Tethered to means engageable with human body part (e.g., hand-held means or means attachable to human body part) (273/414)
<u>FOR215</u>	. Scattershot projectile or beanbag projectile (273/415)
<u>FOR216</u>	. Arrow, dart, shuttlecock, or element thereof (273/416)
<u>FOR217</u>	.. Shuttlecock (273/417)
<u>FOR218</u>	.. Material dispensing upon impact or having fluid conducting means (273/418)
<u>FOR219</u>	.. Head structure (273/419)
<u>FOR220</u>	... And vane structure (i.e., flight guiding or stabilizing means) (273/420)
<u>FOR221</u>	... Broadhead (273/421)
<u>FOR222</u>	.... Interchangeable blade (273/422)
<u>FOR223</u>	.. Vane structure (i.e., flight guiding or stabilizing means) (273/423)
<u>FOR224</u>	. Disc or ring projectile (273/424)
<u>FOR225</u>	.. Ring (273/425)
<u>FOR226</u>	. Boomerang projectile (273/426)
<u>FOR227</u>	. Horseshoe projectile (273/427)
<u>FOR228</u>	. Nonspherical projectile (273/428)
<u>FOR229</u>	. Projectile (273/128R)
<u>FOR230</u>	.. Curling stones (273/128CS)
<u>FOR231</u>	.. Rollable (273/128A)

Note: Some content linked to on this page may require a plug-in for Adobe Acrobat Reader.

[Intranet Home](#) | [Index](#) | [Resources](#) | [Contacts](#) | [Internet](#) | [Search](#) | [Firewall](#) | [Web Services](#)